國立臺灣大學工學院新開課程綱要

一、課程基本資訊

系所	建築與城鄉所			授課教師	呂欽文		
課程名稱	(中文)建築實務與其本質 (英文)Architecture Practice works and its Essence					☑中文授課 ☐英文授課	
課程編號	544 U2020	班次		學分數	3	☐必修 ☑選修	☐全年 ☑半年
上課時間	週四 A.B.C	上課地點		人數上限	30	適修年級	碩士班
課程網址							

二、課程大綱內容 (對應 CEIBA 欄位，以中英並列為原則)

課程概述	「實務」是實踐「理念」的手段與工具，也是檢驗「理念」的最終依據。 這個道理在各行各業是如此，在「建築」的領域中，更是如此。 這是因為，「建築」跨越了多面向的知識。「建築」不只是「工程」與「藝術」的結合，更涉及到「人性行為」、「社會文化」、「物理環境」、「意識形態」…；「建築」的種種「複雜」問題與「矛盾」因子，皆需藉著「實務」工作，予以整合與化解。因此，建築設計的創意固然重要，但如果說「『實務』工作的純熟與否關係著「建築」設計的終極成敗」應不為過。 建築「實務」工作始自初始構想的描繪、抽象意念的轉譯(為現實尺度)、結構與構造的設計、經費控制、施工品質監控、裝修介面整合….直到現場接水接電的完成。 這堂課的重點，不在於每一部份實務工作的細節訓練，而在於從整體的角度，從更高的視野綜觀各部分實務工作間的關係，藉以讓有從事建築設計工作者，更精準地掌握每一種實務工作的本質，避免「過」與「不及」的情事的發生。 當然，本堂課也有意探討涉及建築的各專業之間，譬如結構、電機、營造、業主、與建築師之間職能的分際。因為分際模糊，這一	It is always true that practice is the only way to review whether the original oncepts can be implemented.The wy of Architecture is also true. Since the contents of every architecture is related not only between engineer and arts, but also to so many other professional fields, such as behavioral science, social culture, nature environment, users' ideology。The conflicts caused by different concerns of the fields needed to be solved by practical works。Therefore, it is fair to say that without skillful practice, a success architecture will not emerge. Architecture practice works started from programming, design development, structure and construction design, estimation, site supervision, and completed when electric power and domestic water are applied. To introduce , from higher standing point of view, how they are working together and what are the original meaning of the works is the main purpose of this class, instead of introducing every detail of different parts. Only by means of fully understanding of

	直是工程界常產生紛爭的地方。	the practice works, appropriate effotts then could be employed during the whole process of architecture. The definition of different professions, or the duty and obligation between architects, engineer, contractor and owner, are not clear in our society。It is also one of the intentions to clarify the relations of different roles through the study of the origin of architecture practice works in the class..
課程目標	A. 傳授關於: 1. 「建築」的基本元素 2. 「建築」產生的程序 3. 建築「實務」工作有那些 4. 各種「實務」的本質 5. 「實務」的複雜與矛盾及應對方式 6. 如何延伸本堂課的「本質」概念運用至其他領域 B. 藉參訪工地了解建築實務工作	A.To introduce : 1. The elements of architecture. 2. The process of architecture. 3. What are the practice works in architecture 4. What are the origins of the architecture practice works 5. The conflicts between the architecture practice works 6. How to apply the idea of origins to other fields B. To learn the architecture practice works by site visits.
關鍵字	設計方法/建築實務/環境設計	Design method/architecture practice / environmental design
課程要求 (先修科目或先備能力)	● 對建築或工程有興趣、或有志於未來從事建築相關工作者。 ● 將根據不同背景者給予適當作業	Students who are interested in architecture and engineering, or going to work on related jobs.
指定閱讀 (教科書)	● 自編教材，隨堂提供 ● Site Planning，Kevin Lynch，The MIT Press ● 住屋形式與文化。張玫玫譯，境與象	Reading material written by instructor will be provide in the classes.
參考書目	● 建築無我，張哲夫建築師事務所，田	Selfless architecture,by Architect Chang

	園 2017 ● 建築的七盞明燈，陳德如，台灣商務,2006 ● 建築中的複雜與矛盾，羅伯・范裘利	Che-Fu,2017
課程進度		
週次	單元主題	
1	課程介紹	General introduction
2	建築的起源與建築專業的誕生	The origins of Architecture and the Profession
3	建築解構---建築有那些元素	The elements of Architecture
4	建築的程序與建築實務	The Architecture process and its practice works
5	參訪	Site visit
6	建築設計的內容與成形過程	Design development process
7	建築設計與相關領域	Architecture design and related fields
8	什麼是施工圖	What is the construction drawing.
9	建築—營造的關係	The definition and relation of Architecture and contractor
10	參訪	Site visit
11	工地營造的流程	The process of construction.
12	所謂監造與品質管理	Site supervision and quality control
13	工地會產生的問題	The issues usually occur when building is under construction.
14	實務的複雜與矛盾	The conficts of Practice works
15	建築實務的本質 1	The Origins of Architecture Practice works 1
16	建築實務的本質 2	The Origins of Architecture Practice works 2
17	綜合報告	Final report
18	綜合討論	Review of the classes

三、課程綱要與核心能力（參與工程認證系所應選填項目）

課程綱要		對應之學生核心能力	備註
單元主題	內容綱要		

系所核心能力對照表（請各系所自填）

系所代碼	核心能力代碼	核心能力名稱